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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,779		06/27/2003	Masao Imamura	HAT-024-USA-P 6387	
27955	7590	10/31/2005		EXAMINER	
TOWNSE		NTA	KIM, PAUL D		
c/o PORTFO				ART UNIT	PAPER NUMBER
PO BOX 52050 MINNEAPOLIS, MN 55402				3729	

**DATE MAILED: 10/31/2005** 

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/606,779	IMAMURA, MASAO			
Office Action Summary	Examiner	Art Unit			
	Paul D. Kim	3729			
The MAILING DATE of this communication appeared for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>15 Secondary</u> 2a)□ This action is <b>FINAL</b> . 2b)⊠ This     3)□ Since this application is in condition for allowant closed in accordance with the practice under Expression	action is non-final. ice except for formal matters, pro				
Disposition of Claims					
4) □ Claim(s) 3-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 3-5 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or					
Application Papers					
9) ☐ The specification is objected to by the Examiner 10) ☐ The drawing(s) filed on 27 June 2003 is/are: a)  Applicant may not request that any objection to the d  Replacement drawing sheet(s) including the correction  11) ☐ The oath or declaration is objected to by the Examiner	☐ accepted or b)☐ objected to b Irawing(s) be held in abeyance. See on is required if the drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4)  lnterview Summary ( Paper No(s)/Mail Dat 5)  Notice of Informal Pa	e			
Paper No(s)/Mail Date	6) Other:	non application (FTO-192)			

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#### **DETAILED ACTION**

This office action is a response to the restriction requirement filed on 9/15/2005.

### Response to the Restriction Requirement

- 1. Applicant's election without traverse of Group II, claims 3 and 4, in the reply filed on 9/15/2005 is acknowledged.
- 2. The non-elect claims 1 and 2 are cancelled in the reply filed on 9/15/2005.

#### Information Disclosure Statement

3. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

#### **Drawings**

4. Figure 13 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct

any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

# Specification

5. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: --A METHOD OF MANUFACTURING A SUBSTRATE OF A ROTARY ENCODER--.

### Claim Objections

- 6. Claims 3-5 are objected to because of the following informalities:
- Re. Claim 3: The phrase "its" as recited in line 3 needs to be changed to –the resin substrate--.
- Re. Claim 4: The phrase "the front surface" as recited in line 7 appears to be –a front surface--.
- The phrase "its" as recited in line 25 needs to be changed to –the resin substrate--
- Re. Claim 5: There are brackets and underlines in line 1 and line 37. Since claim 5 is a new claim, the brackets and underlines should be removed.
- The phrase "the front surface" as recited in line 6 appears to be –a front surface--.

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The phrase "its" as recited in line 36 needs to be changed to –the resin substrate--.

Appropriate correction is required.

# Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 3-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Re. Claim 3: The phrase "a resin varnish applying step comprising applying and surprinting resin varnish into a concave portion of the ring-shaped comb electrode pattern after the etching, so as to remove excessive resin varnish from the surface" as recited in lines 9-11 renders the claim vague and indefinite. It is unclear as to apply and surprint the resin varnish only the concave portion of the ring-shaped comb electrode pattern or the concave portion of the substrate including the concave portion of the ring-shaped comb electrode pattern after the etching. In addition, the phrase "the surface" as recited in line 11 renders vague and indefinite. It is unclear as to which surface is indicated. Is it the front surface or the back surface or the ring-shaped comb electrode pattern or electrode patterns? Clarification is required.

Re. Claim 4: The phrase "a substrate having a front center hole, a back surface, an outermost periphery, first and second ring-shaped electrode patterns formed on the

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surface concentrically around the center hole" as recited in line 2-4 renders vague and indefinite. It is unclear as to where the front and back are indicated because the center hole is located at the front and the first and second ring-shaped electrode patterns formed on the back surface around the center hole. Clarification is required.

The phrase "a resin varnish applying step comprising applying and surprinting resin varnish into a concave portion of the ring-shaped comb electrode pattern after the etching, so as to remove excessive resin varnish from the surface" as recited in lines 31-33 renders the claim vague and indefinite. It is unclear as to apply and surprint the resin varnish only the concave portion of the ring-shaped comb electrode pattern or the concave portion of the substrate including the concave portion of the ring-shaped comb electrode pattern after the etching. In addition, the phrase "the surface" as recited in line 33 renders vague and indefinite. It is unclear as to which surface is indicated. Is it the front surface or the back surface or the ring-shaped comb electrode pattern or electrode patterns? Clarification is required.

Re. Claim 5: The phrase "a substrate having a front center hole, a back surface, an outermost periphery, first and second ring-shaped electrode patterns formed on the surface concentrically around the center hole" as recited inline 2-3 renders vague and indefinite. It is unclear as to where the front and back are indicated because the center hole is located at the front and the first and second ring-shaped electrode patterns formed on the back surface around the center hole. Clarification is required.

The phrase "a resin varnish applying step comprising applying and surprinting resin varnish into a concave portion of the ring-shaped comb electrode pattern after the

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etching, so as to remove excessive resin varnish from the surface" as recited in lines 42-44 renders the claim vague and indefinite. It is unclear as to apply and surprint the resin varnish only the concave portion of the ring-shaped comb electrode pattern or the concave portion of the substrate including the concave portion of the ring-shaped comb electrode pattern after the etching. In addition, the phrase "the surface" as recited in line 44 renders vague and indefinite. It is unclear as to which surface is indicated. Is it the front surface or the back surface or the ring-shaped comb electrode pattern or electrode patterns? Clarification is required.

### Allowable Subject Matter

9. Claims 3-5 would be allowable if rewritten or amended to overcome the rejections under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

#### Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D. Kim whose telephone number is 571-272-4565. The examiner can normally be reached on Monday-Friday between 7:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul D Kim

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Examiner

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